

YEZHNIK, I.I.; KOVALEV, I.A.

Determining the heat capacity of benzene, paraxylene,
metaxylol and cyclohexane in a supercooled state. Khim. i
tekh. topl. no.10:12-14 0 '56. (MLRA 9:11)

(Heat capacity) (Hydrocarbons)

KOVALEV, I.A.

Method and theoretical principles of spectrum analysis based on lines located in different regions of the spectrum. Zhur.anal. khim. 11 no.2:123-128 Mr-Apr '56. (MLRA 9:8)

1. Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya.
(Spectrum analysis)

Prohney, L.A.

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Kovalev, I.A.

AUTHORS: Yezhik, I.I., Kovalev, I.A.

32-11-32/60

TITLE: A Method of Determining Concentrations According to Spectral Lines Located in Different Domains of the Spectrum (Metodika opredeleniya kontsentratsii po spektral'nykh liniyam, raspolozhennym v raznykh oblastyakh spektra)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1355-1357 (USSR)

ABSTRACT: The equations described in the paper (1-3) serve the purpose of determining concentration according to analytical pairs of lines near the long-wave boundary. In the case of a large distance between these lines the factor of contrast (μ) must be taken into account. If a corresponding coefficient is introduced into the equation, the concentration of the component according to the lines located in different domains of the spectrum can be determined. In this case the equation is as follows:

$$S_2 - pS_1 = 2b \cdot g \cdot \frac{C}{C_0} + 2 \cdot g \cdot a, \text{ where } p = r \cdot \frac{2}{1} \text{ is the}$$

correction coefficient. (The application of the formula is described). Accordingly, also the correction of the nonuniformity of the film is calculated, i.e. an average value of the differences of blackening according to the data of photometrization of all spectrograms made by

Card 1/1

32-11-32/60

A Method of Determining Concentrations According to Spectral Lines Located in
Different Domains of the Spectrum

the film is determined. (There follows an example of spectroanalysis). As a result a table of the determination of the sodium concentrations with respect to potassium and a table of the results of the alkali determination in the solutions given is mentioned. This method of analyzing the aqueous solution of the hydrochlorides of sodium and potassium salts makes it possible to determine the content of potassium of 0.005 g/ml and of sodium of 0.0005 g/ml. This method can also be applied for the analysis according to the method of combined light dispersion as also in molecular spectroscopy. There are 1 figure, 2 tables, and 3 references, 2 of which are Slavic.

ASSOCIATION: Khar'kov Institute for Building Engineering (Khar'kovskiy inzhenerno-stroitel'skiy institut)

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BORISENKO, Sergey Grigor'yevich; TARASOV, Leonid Yakovlevich;
KOVALEV, Igor' Antoninovich; PROTOPOPOV, Sergey Filippovich;
DZHIMSHILEY SHVILI, Sh.P., otv. red.; YEROKHIN, G.M., red.
ind-va; OVSEYENKO, V.G., tekhn.red.

[Raise work] Prokhodka vosstaiushchikh. Moskva, Gos-
gortekhzdat, 1962. 271 p. (MIRA 15:11)
(Mining engineering)

MYASNIKOV, Konstantin Viktorovich; RUDENKO, Vasilii Vladimirovich;
BURTSEV, L.I., kand. tekhn. nauk, retsenzent; KOVALEV, I.A.,
kand. tekhn. nauk, otv. red.

[Using hardening fillers during the mining of mineral deposits]
Primenenie tverdeiushchei zakladki pri razrabotke rudnykh me-
storozhdenii. Moskva, Izd-vo "Nedra," 1964. 121 p.
(MIRA 17:4)

FUGZAI, Mark Davydovich; BROINIKOV, D.M., doktor tekhn. nauk,
retsenzent; KOVALEV, I.A., kand. tekhn. nauk, otv. red.;
SMIRENSKIY, M.M., red.

[Practice of single-stage mining of thick ore deposits
with large-scale breaking down] Opyt odnostadiinnoi raz-
rabotki moshchnykh rudnykh mestorozhdenii s massovoi ot-
boikoi. Moskva, Izd-vo "Nedra," 1964. 130 p.
(MIRA 17:7)

LECHENKO, I.A., prof., red.; SHELEST, L.A., kand. tekhn. nauk,
red.; BUNIN, A.I., retsenzent; BURSHEYN, P.S.,
retsenzent; KAPITANOV, T.V., retsenzent; KUZ'MIN, A.V.,
retsenzent; TARASOV, L.Ya., otv. red.; KOVALEV, I.A.,
otv. red.

[Development of mineral resources in Eastern Siberia] Raz-
rabotka mestorozhdenii poleznykh iskopaemykh Vostochnoi
Sibiri. Moskva, Nedra, 1964. 382 p. (MIRA 17:12)

BORISOV, Sergey Sergeyevich; GORNOVOY, Boris Aleksandrovich;
KLOKOV, Mikhail Pavlovich; GELYUTA, Ye.Z., dots. kan .
tekhn. nauk retsenzent; KOVALEV, I.A., otv. red.

[Mining] Gornoe delo. Moskva, Nedra, 1964. 426 p.
(MIRA 18:3)

GELYUTA, Yevgeniy Zakharovich, prepod.; NURMUKHAMEDOV, Yunus
Kaderbayevich, prepod. Prinimal uchastiye KOVALEV, I.A.,
dots.; RODIONOV, L.Ye., dots.

[Mining engineering] Gornoe delo. Moskva, Nedra, 1965.
590 p. (MIRA 18:9)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

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SOURCE CODE: UR/0044/65/000/012/B104/E105

AUTHOR: Kovalev, I. A.

TITLE: Approximate method for solving a certain first order ordinary differential equation

SOURCE: Ref. zh. Matematika, Abs. 12B554

REF SOURCE: Tr. Khar'kovsk. s.-kh. in-ta, v. 46(83), 1965, 105-113

TOPIC TAGS: first order differential equation, ordinary differential equation, approximation method

ABSTRACT: It is proved that the equation

$$y' + \sum_{k=0}^{n-1} X_k(x) y^k = 0 \quad (1)$$

can be expressed in terms of the determinant

$$\Delta(y) = \begin{vmatrix} y' & y & y^2 & \dots & y^{n-1} \\ y_1' & y_1 & y_1^2 & \dots & y_1^{n-1} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ y_n' & y_n & y_n^2 & \dots & y_n^{n-1} \end{vmatrix} \quad (2)$$

where y_1, y_2, \dots, y_n are different particular solutions of equation (1) which the author calls determining functions. Assuming that the system of determining functions is known, one can find an approximate solution of equation (1) by constructing a sequence of functions $\{Y_1\}$ for which $\Delta(Y_1(x)) > \Delta(Y_2(x)) > \dots$ on some collection of

Card 1/2

UDC: 518:517.91/.94

KOVALEV, I.A.

Spectral method of determining silicon traces in cesium iodide.
Zav. lab. 30 no.6:705 '64 (MIRA 17:8)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni V.V.
Dokuchayeva.

PANIN, Ivan Mikheylovich; KOVALEV, Igor' Antoninovich; POPOV, G.N.,
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I.A., prof., doktor tekhn. nauk, retsenzent; LOBANOV, D.P.,
dots., kand. tekhn. nauk, retsenzent; STEBAKOV, B.A., gorn.
inzh., retsenzent; TARASOV, L.Ya., prof., gornyy inzh.,
otv. red.

[Problems on the underground mining of ore deposits] Zadach-
nik po podzemnoi razrabotke rudnykh mestorozhdenii. Moskva,
Nedra, 1964. 211 p. (MIRA 18:2)

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KOVACS, G.
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KOVALEV, I. A.